APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Operating Conditions of a Radiation Superheater Placed Along the Whole Height of the Furnace, by I. E. Semenovker.

RUSSIAN, per, Teploenergetika, No 7, 1959, pp 41-45.

DSIR LLU RTS 1492

Sci - Engr

Oct 60

128,723

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Development of Water Treatment Plant With Cation and Chemical Demineralising, Combined With the Use of Magnesia for Silica Removal, by I. M. Sokolov.

RUSSIAN, per, Teploenergetika, No 7, 1959, pp 59-65.

DSIR LLU RTS 1516

Sci - Chem

125,555

Sep 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Continuous Quality Control of Boiler Feed Water and Condensate, by F. K. Evzerova.

RUSSIAN, per, Teploenergetika, No 7, 1959, pp 65-69.

DSIR LLU NTS 1517

Sci - Engr

Aug 60

122,527

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Rating Surface Heat Exchangers for Condensing Steam From a Steam and Air Mixture, by L. D. Berman, S. N. Fuks.

RUSSIAN, per, Teploenergetika, Vol VI, No 7, 1959, pp 74-84.

NLL Ref: 9022.09 1964 (3480)
(loan copy)

Sci
Sep 64

NLL RTS 2727

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Noskiyevich, Ya.
CZECHOSLOVAKIAN RESEARCH ON ELECTRICAL PHENOMENA TAKING PLACE DURING CAVITATION, AND ON ELECTRICAL METHODS OF COMBATTING CAVITATION EROSION (Issledovaniya v Chekhoslovakii Elektricheskikh Yavlenii pri Kavitatsii i Elektricheskikh Sredstv Zaschity ot Kavitatsionnoy Erozii). [1960] [9]p. (8 figs. omitted) 13 refs. M1327.
Order from LC or SLA mi$1.80, ph$1.80 60-23038

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 7, p. 84-86.

Numerous investigations on cavitation erosion have shown that the electrical phenomena and their action on the metal should be taken into account in considering the nature of cavitation erosion. The electric currents set up during cavitation are due to heating of the metal. Cathodic protection can be an effective means of combatting cavitation erosion. (Author)

(Engineering--Electrical, TT, v. 5, no. 3)

60-23038

1. Cavitation--Electrical effects
2. Turbines--Cavitation
I. Noskiyevich, Ya.
II. DSIR LLU M.1327

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

The VTI-3 Laboratory Monochromatic Photometer, by V. A. Korovin, A. I. Savvatimskiy. UNCL

RUSSIAN, per, Teploenergetika, No 8, 1959, pp 9-11.

DSIR LLU RTS 1473

(5a. 0d.)

Sci - Engr
Apr 60

113,034

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

A Method of Determination of Sodium Ferrite, by V. A. Taratuta. UNCL

RUSSIAN, per, Teploenergetika, No 8, 1959, pp 11-14.

DSIR LLU RRS 1A41

(10s. 0d.)

113035

Sci - Engr
Apr 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Determining the Width of a Sampler for Solid Fuel, by A. I. Baklagin.

RUSSIAN, per, Teploenergetika, Vol VI, No 8, 1959, pp 14-16.

CAIRO

Sci - Fuels
Aug 62

211,489

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

The Liability to Damage of Batch-Produced Standard High-Pressure Boilers, by E. G. Gershtein, et al. UNCL

RUSSIAN, per, Teploenergetika, No 8, 1959, pp 30-33.

OTS 60-23807
DSIR LIB RTS 1442

(7s. 6d.)

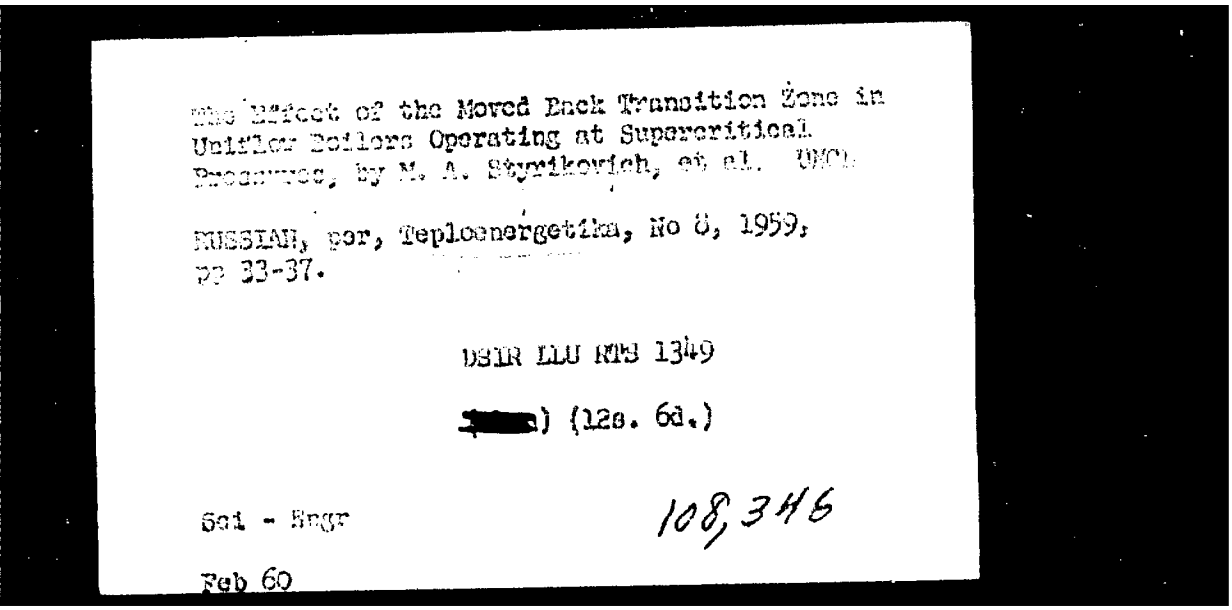
116,608

Sci - Engr

May 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8



The Effect of the Moved Back Transition Zone in Unifiow Boilers Operating at Supercritical Pressures, by M. A. Styrikovich, et al. (USSR)

RUSSIAN, gor, Teploenergetika, No 6, 1959, pp 33-37.

DSIR LLL MT 1349

[redacted]) (12s. 6d.)

Sal - Engr

Feb 60

108,346

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Natural Circulation Under Nonsteady Conditions,
by I. B. Kmaikin. UNCL

RUSSIAN, per, Teploenergetika, No 8, 1959,
pp 38-43.

DSIR LLU RTS 1350

(15s. Cd.)

111,076

Soi - Engr

Mar 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Improvement and Modification of the Steam Scrubbing Installations and Staged Evaporation System in TP-170-1 Boilers, by Yu. R. Yurchakevich. UNCL

RUSSIAN, per, Teploenergetika, No 8, 1959, pp 43-48.

SLA 61-23568
DSIR LLU RTS 1474

(12s. 6d.)

Sci - Engr

May 60

116,609

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

On the Incorrect Interpretation of the Nature of Phenomena Involved in the Selective Carry-Over of Silica Into Steam, by Yu. V. Zenkevich. UNCL

RUSSIAN, per, Teploenergetika, No 8, 1959, pp 51-53.

DSIR LLU RTS 1443

(5s.)

Sci - Phys

May 60

116,610

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

F

AN EXPERIMENTAL DETERMINATION OF SPECIXIC VOLUMES OF STEAM AT HIGH TEMPERATURES AND PRESSURES, BY V. A. KIRILLIN, S. A. ULIBIN.

RUSSIAN, PER, TEPLOENERGETIKA, VOL VI, NO 8, 1959, PP 71-73.

NLL M. 3725

SCI - PHYS

OCT 62

214,184

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Analysis of the Accuracy and Composite Table of Experimental Values of the Specific Volumes of Water and Water Vapor Obtained in the Moscow Power Inst, by V. A. Kirillin, S. A. Ulybin, 6 pp.

RUSSIAN, per, Teploenergetika, Vol VI, No 9, 1959, pp 3-6.

MIT K-199 119,157

Sci -
Jun 60
Vol III, No 5 SLA 60-17(2)

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Experimental Investigation of the Specific Heat of Water at 10-500°C Temperatures and Pressures to 500kg/cm^2, by A. M. Sirota, B. K. Mal'tsev, 15 pp.

RUSSIAN, per, Teploenergetika, Vol VI, No 9, 1959, pp 7-15.

MDF S-137

Sci
OTS, Vol III, No 6
Sep 60

126,937

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Experimental Investigation of the Heat Conduction of Steam at High Pressures, by N. B. Vargaftik, A. A. Tarzimanov, 13 pp.

RUSSIAN, per, Teploenergetika, Vol VI, No 9, 1959, pp 15-21.

SLA 61-13529
MDF V-137
DSIR LLL 11.1370

Sci

OTS, Vol III, No 6

126,938

Sep 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Viscosity of Steam at Atmospheric Pressure, by A. S. Shifrin, 10 pp.

RUSSIAN, per, Teploenergetika, Vol VI, No 9, 1959, pp 22-27.

MDF S-142

Sci

OTS, Vol III, No 6

Sep 60

126,936

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Die Anwendung der Stufenverdampfung und der Dampfwasche in Dampferzeugenden Einrichtungen der Atom-Elektro-Stationen, by T. Ch. Margulov.

RUSSIAN into GERMAN, per, Teploenergetika, No 9, 1959, pp 27-31.

NLL M. 2810

Sci

Feb 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Thermal Calculation of a Boiler Plant Using the Calculating Machine "Ural," by M. P. Simoyu, et al.

RUSSIAN, per, Teploenergetika, No 9, 1959, pp 32-39.

DSIR LLU RTS 1493

Sci - Engr

Oct 60

128, 725

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

A Study of an Experimental cyclone air-cooled Combustion Chamber, by B. D. Katsnel'son, A. A. Shatil'
RUSSIAN, per, Teploenergetika, 1959, No 9, pp 39-46
NLL RTS 2301
(ON LOAN OR PURCHASE)

Sci - Eng
May 67

325,892

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Effect of Devices Installed in the Drum Upon the Amount of Steam Carried Into the Fall Tubes, by O. M. Baldina, Ts. M. Baytina. UNCL

RUSSIAN, per, Teploenergetika, No 9, 1959, pp 46-50.

OTS 60-23757
DSIR LLU RTS 1494

(12s. 6d.)

Sci - Engr

May 60

116,611

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Some Regular Features in the Carry-Over of Weak Mineral Acids Into Saturated Steam, by M. A. Styrikovich, et al. USCL

RUSSIAN, per; Teploenergetika, No 9, 1959, pp 50-56.

SLA 60-23626
DSIR LLU RPS 1453

(15s. Od.)

113,036

Sci - Phys
Apr 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Protracted Durability of Boiler Steels in Conditions of Variable Temperature, by I. N. Laguntsov, L. I. Fedotova.

RUSSIAN, per, Teploenergetika, No 9, 1959, pp 57-62. 9662626

ATIC MCL-642/I

Sci - Engr
T60-17104
Ref DC-12
Jul 61

159,286

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

The Influence of the Throttling of Flow, and of the Heated Proportion of the Tube Transfer, Upon the Critical Intensities of Heat Transfer, by V. E. Doroshchuk, F. P. Frid.

RUSSIAN, per, Teploenergetika, No 9, 1959, pp 74-79. 9093117 ATS-8,m40,R
DSIR LLU RTS 1464

Sci - Engr

AEC Tr-4812
NLL m 4014 122,520

Aug 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

(DC-3138).

Metallurgical Achievements in the Development of High-Temperature (Heat-Resistant) Steels and Alloys for Gas Turbine Construction, by P. E. Mikhaylov-Mikhayev, 14 pp.

RUSSIAN, per, Teploenergetika, No 10, 1959, pp 3-8.

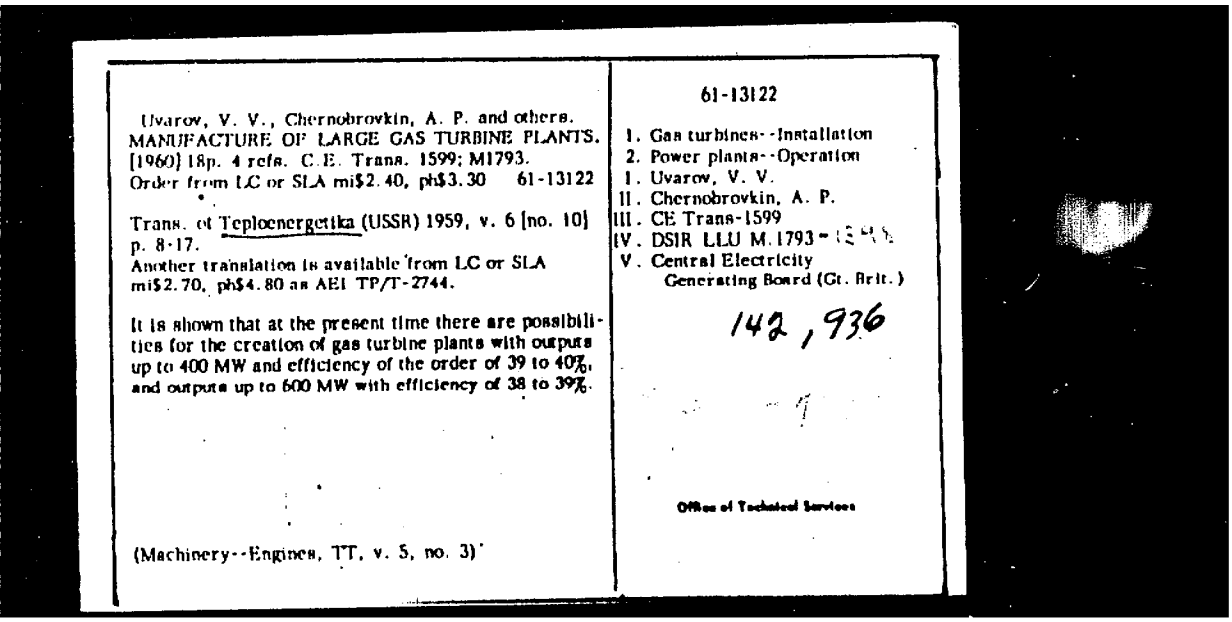
JPRS-1038-D

USSR
Sci - Minerals/Metals
Dec 59

102,375

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8



Uvarov, V. V., Chernobrovkin, A. P. and others.
MANUFACTURE OF LARGE GAS TURBINE PLANTS.
[1960] 18p. 4 refs. C.E. Trans. 1599; M1793.
Order from LC or SLA mi$2.40, ph$3.30 61-13122

Trans. of Teploenergetika (USSR) 1959, v. 6 [no. 10] p. 8-17.
Another translation is available from LC or SLA mi$2.70, ph$4.80 as AEI TP/T-2744.

It is shown that at the present time there are possibilities for the creation of gas turbine plants with outputs up to 400 MW and efficiency of the order of 39 to 40%, and outputs up to 600 MW with efficiency of 38 to 39%.

(Machinery--Engines, TT, v. 5, no. 3)

61-13122

1. Gas turbines--Installation
2. Power plants--Operation
I. Uvarov, V. V.
II. Chernobrovkin, A. P.
III. CE Trans-1599
IV. DSIR LLU M.1793 - [illegible]
V. Central Electricity Generating Board (Gt. Brit.)

142,936

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Investigation of Radiant Heat Transfer in the Furnace of a Natural Gas-Fired Boiler, by P. P. Kazakevich, et al.

RUSSIAN, per, Teploenergetika, No 10, 1959, pp 34-38.

DSIR LLU RTS 1555
Dept of Interior
TN7 E57 No 347
128,857

Sci - Engr

Oct 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

On the Caloric Properties of Water at Pressures up to 500 kg/cm^2 and Temperatures up to 300° C. 6 p. by A. M. Sirota, P. E. Belyakova

RUSSIAN, per, Teploenergetika, 1959, Vol VI, No 10, pp 67-70. 9093136

MDF 8-138

S
Sci
Apr 60
Vol III, No 3

113,669

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Experimental Investigation of the Heat Conduction of Water, by N. B. Vargaftik, O. N. Cleshchuk, 7 p.

RUSSIAN, per, Teploenergetika, 1959, Vol VI, No 10, pp 70-74.

MDF V-138

NLL 11.4736

113,670

Sci
Apr 60 3
Vol III, No 4

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Experimental Determination of the Specific Volumes of Water Up to 1200 kg/cm^2 Pressures, by M. P. Vukalovich, V. N. Zubarev, 6 pp.

RUSSIAN, per, Teploenergetika, Vol VI, No 10, 1959, pp 74-77.

Morris D. Friedman
V-139

119,363

Sci

Jun 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Vukalovich, M. P. and Altunin, V. V.
EXPERIMENTAL INVESTIGATION OF THE p-v-t RELATIONS OF CARBON DIOXIDE (Eksperimental'noye Issledovaniye Zavisimosti p-v-t Uglekisloty). [1960] 13p. 11 refs. (4 figs. 10 tables omitted)
M 1796.
Order from LC or SLA mi$2.40, ph$3.30 61-13124

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 11, p. 58-65.

A new method is described for the experimental investigation of the p-v-t relations of gases, based on the use of a nonballast piezometer, and the determination of the quantity of gas by means of a separable container filled with an adsorbent. The results are given of the investigation of the p-v-t- relations of carbon dioxide. (Author)

(Physics--Thermodynamics, TT, v. 5, no. 5)

61-13124

1. Carbon dioxide--Thermodynamic properties
I. Vukalovich, M. P.
II. Altunin, V. V.
III. DSIR LLU M. 1796

147,101

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Generalisation, Using Non-Dimensional Parameters, of the Results of Drop Size Measurements for Liquids Atomized Through Centrifugal Nozzles, by Yu F. Dityakin and L. N. Britneva.
RUSSIAN, per. Teploenergetika, Vol 6, No 11, 1959, PP 33-36.
NLL 9022.09 (4451)

Sci-Mat
Nov 67

345,386

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Abrasion Index of Coal and the Wear Resistance of Metals Used for Coal Crushing, by N. V. Sokolov, V. P. Osokin.

RUSSIAN, per. Teploenergetika, No 11, 1959, pp 37-41.

DSIR LLU RTS 1582

Sci - Engr

Oct 60

130,722

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Sculing in Turbine Condensers Reduced by Treating Cooling Water Magnetically, by N. P. Lapotyshkina.

RUSSIAN, per, Teploenergetika, No 11, 1959, pp 45-47.

DSIR LLU RTS 1583

Sci - Engr

Oct 60

128,851

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Effect of the Salt Content of Boiling
Water on Hydrodynamics During Bubbling,
by L. S. Sterman, et al.
RUSSIAN, Teploenergetika, 1959,
Vol 6, No 11, pp 48-52.
NLL 9022.09 1964 (3632) (On Loan)

Aug 65

287,220

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Hydrodynamics of Forced Circulation Boilers,
by A. A. Davidov, B. I. Sheinin.

RUSSIAN, per, Teploenergetika, No 11, 1959,
pp 53-57.

DSIR LLU RTS 1584

Sci - Engr

Oct 60

130,724

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Vukalovich, M. P. and Altunin, V. V.
AN EXPERIMENTAL INVESTIGATION OF THE p-v-t DEPENDENCE OF CARBON DIOXIDE [Eksperimental'-noye Issledovaniye Zavisimosti p-v-t Ugleksloty]. [1962] [14]p. 11 refs.
Order from OTS or SLA $1.60 63-13425

Trans. of Teploenergetika (USSR) 1959, v. 6, no. 11, p. 58-65.
Another trans. is available from LC or SLA ml$2.40, ph$3.30 as 61-13124, DSIR LLU M. 1796 [1960] 13p.

DESCRIPTORS: *Carbon dioxide, Pressure, Volume, Temperature, Gas analyzers, Adsorbents, Equations of state.

For abstract see Technical Translations 5: 274, 1961.

(Physics--Thermodynamics, TT, v. 9, no. 12)

63-13425

I. Vukalovich, M. P.
II. Altunin, V. V.
III. Translations, New York

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Hydraulic Resistance With Surface Boiling of Water, by P. G. Poletavkin.

RUSSIAN, per, Teploenergetika, No 12, 1959, p 13-18.

DSIR LLU RTS 1513

Sci - Engr

Oct 60

128,724

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

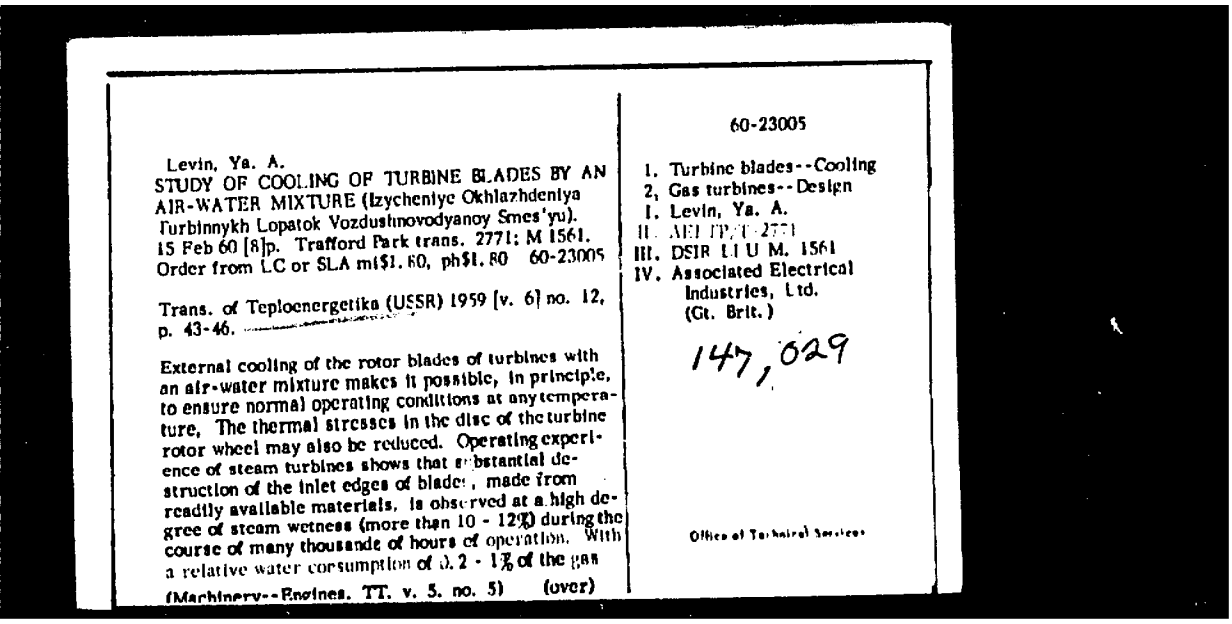
Heat Echange in the Supercritical Regions During the Flow of Piped Carbonic Acid and Water, by Ye. A. Krasnoshchekov, V. S. Protopov.
RUSSIAN, per, Teploenergetika, Vol 6, No 12, 1959, pp 26-30.
NASA TT F-11,335

Sci-Chem
Jan 68

348,678

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8



Levin, Ya. A.
STUDY OF COOLING OF TURBINE BLADES BY AN AIR-WATER MIXTURE (Izycheniye Okhlazhdeniya Turbinnykh Lopatok Vozdushnovodyanoy Smes'yu). 15 Feb 60 [8]p. Trafford Park trans. 2771; M 1561. Order from LC or SLA mi$1.60, ph$1.80 60-23005

Trans. of Teploenergetika (USSR) 1959 [v. 6] no. 12, p. 43-46.

External cooling of the rotor blades of turbines with an air-water mixture makes it possible, in principle, to ensure normal operating conditions at any temperature. The thermal stresses in the disc of the turbine rotor wheel may also be reduced. Operating experience of steam turbines shows that substantial destruction of the inlet edges of blades, made from readily available materials, is observed at a high degree of steam wetness (more than 10 - 12%) during the course of many thousands of hours of operation. With a relative water consumption of 0.2 - 1% of the gas

(Machinery--Engines. TT. v. 5. no. 5) (over)

60-23005

1. Turbine blades--Cooling
2. Gas turbines--Design
I. Levin, Ya. A.
II. AEI TP/T-2771
III. DSIR LIU M. 1561
IV. Associated Electrical Industries, Ltd. (Gt. Brit.)

147,029

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Dumov, V. I. and Peshkin, M. A.
STUDY OF CAVITATION IN THE IMPELLER OF A CENTRIFUGAL PUMP (Issledovaniye Kavitatsii v Koleoye Tsentrobezhnogo Nasosa). Jan 61 [15]p.
3 refs. RTS 1737.
Order from LC or SLA mi$2.40, ph$3.30 61-15626

Trans. of Teploenergetika (USSR) 1959, v. 6, no. 12, p. 46-51.

The results are presented of a study of the cavitation phenomenon in the impeller of a centrifugal pump, and recommendations are given for improving the anti-cavitation properties of pumps. (Author)

(Machinery--Machine Parts, TT, v. 5, no. 8)

61-15626

1. Impellers--Cavitation
2. Centrifugal pumps--Cavitation
I. Dumov, V. I.
II. Peshkin, M. A.
III. RTS-1737
IV. Department of Scientific and Industrial Research (Gt. Brit.)

151657

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Heat Power Engineering. Part I, 178 pp.
Teploenergetika,
RUSSIAN, bk,/Vypusk I, Ak Nauk SSSR, Energeticheskiy
Inst imeni G. M. Krzhizhanovskogo, 1959.

AEC Tr-4496

Sci - Engr
Feb 62

182, 493

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

The Investigation of the Operation of a Natural-Gas Fired TP-170 Boiler With Feedwater of Varying Temperature, by G. M. Polyakov, et al.

RUSSIAN, per, Teploenergetika, No 12, 1959, pp 51-55.

DSIR LLU RTS 1611

Sci - Engr

128, 853

Oct 60

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Thermodynamic Properties of Ordinary and Heavy Water, by V. A. Kirillin, S. A. Ovlibán.

RUSSIAN, per. Teplosnergetika, No 12, 1959, pp 77-80.

NLL RTS 2036

Sci - Chem

Aug 62

207, 556

RUSSIAN per. Teplosnergetika No 12 1959

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Steam Quality in Supercritical-pressure, Once-Through Boilers with Different Feed-water Composition, by M. A. Styrikovich, et al.
RUSSIAN, per, Teploenergetika, 1960, Vol 7, No 1, pp 30-33.
NLL 9022.09 1964 (3633) (On Loan)

Aug65

287,172

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Reduced Coefficients of Frictional Resistance for the Flow of Steam-Water Mixtures in Tubes, by N. I. Semenov, B. I. Sheminin.

RUSSIAN, per, Teploenergetika, No 1, 1960, pp 33-37.

DSIR LLU RTS 1600

Sci - Engr

Oct 60

130,717

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

C.E. Trans. 5025

EXPERIENCE IN THE PRESERVATION OF STANDBY BOILERS IN THE 'MOSENERGO' POWER STATIONS

L.A. Chernova and A.V. Aseeva

Teploenergetika, Vol. 7, pp. 51-54
(Feb. 1960)
(Spic Code: S3, 18 Dec. 1970)

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Vukalovich, M. P., Dzampov, B. V., and Zubarev, V. N.
TABLES OF THERMO-PHYSICAL PROPERTIES OF AMMONIA (Tablitsy Teplofizicheskikh Svoistv Ammiaka). Mar 62 [13]p. 15 refs. RTS 2037. Order from OTS or SLA $1.60 62-24370

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 1, p. 63-69.

DESCRIPTORS: *Ammonia, Physical properties, Numerical analysis, Equations of state, Specific heat, Viscosity, Thermodynamics

Experimental and calculated data relating to thermodynamic and thermo-physical properties of NH_3 are treated by numerical and graphical methods. The results of this treatment are presented in the form of detailed tables of the properties of ammania. (Author) (Physics--Thermodynamics, TT, v. 8, no. 7)

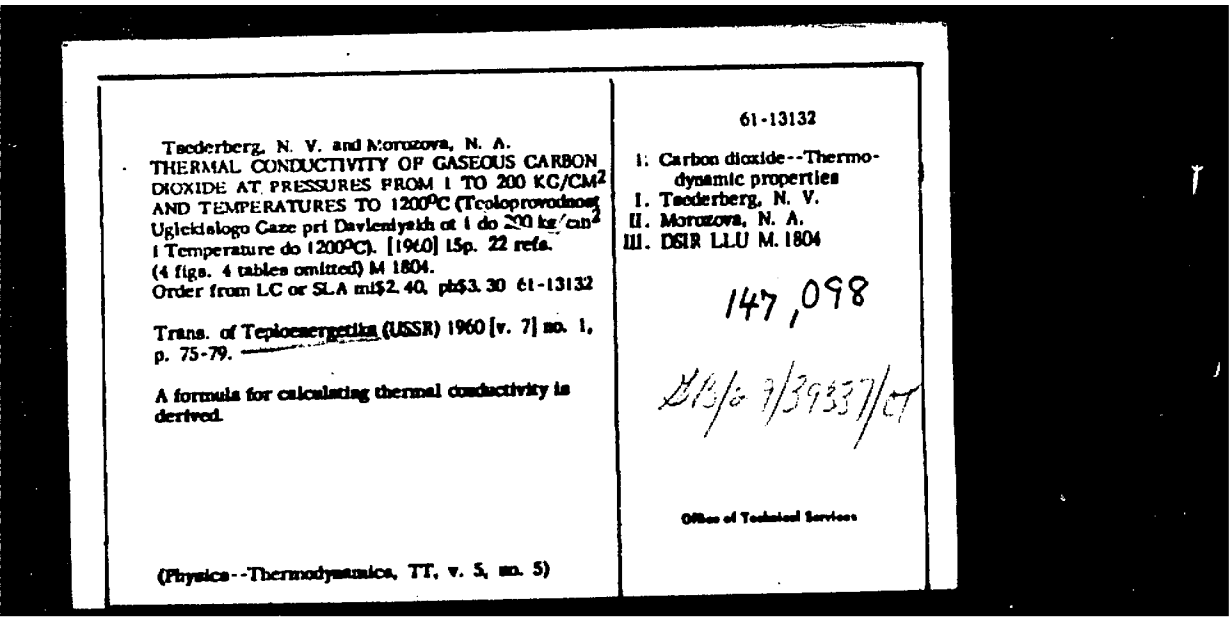
62-24370

I. Vukalovich, M. P.
II. Dzampov, B. V.
III. Zubarev, V. N.
IV. RTS-2037
V. National Lending Library for Science and Technology (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8



Tsederberg, N. V. and Morozova, N. A.
THERMAL CONDUCTIVITY OF GASEOUS CARBON DIOXIDE AT PRESSURES FROM 1 TO 200 KG/CM^2 AND TEMPERATURES TO 1200°C (Teploprovodnost Uglekislogo Gaze pri Davleniyakh ot 1 do 200 kg/cm^2 i Temperature do 1200°C). [1960] 15p. 22 refs. (4 figs. 4 tables omitted) M 1804.
Order from LC or SLA mi$2.40, ph$3.30 61-13132

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 1, p. 75-79.

A formula for calculating thermal conductivity is derived.

(Physics--Thermodynamics, TT, v. 5, no. 5)

61-13132

1. Carbon dioxide--Thermodynamic properties
I. Tsederberg, N. V.
II. Morozova, N. A.
III. DSIR LLU M. 1804

147,098

DIC-9/39337/07

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Heat Emission With Spiral Motion of Liquid,
by E. P. Nanii.

RUSSIAN, per, Teploenergetika, Vol VII, No 1,
1960, pp 85-87.

NLL M.4261

Sci -- Phys

193,908

Apr 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Deych, M. Ye., Zaryankin, A. Ye. and others. METHOD OF INCREASING THE EFFICIENCY OF TURBINE STAGES WITH SHORT BLADES (Metod Povysheniya K. P. D. Stupeney Turbin s Malymi Vysotami Lopatok) tr. by D. R. H. Phillips. 29 Apr 60, 16p. (includes foreign text, 4 refs. not translated) Trafford Park trans. no. 2816; M2000. Order from LC or SLA mi$2.40, ph$3.30 61-13527

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 2, p. 18-24.

146,943

(Machinery--Engines, TT, v. 5, no. 5)

61-13527

1. Turbines--Performance
2. Turbine blades--Aerodynamic characteristics
I. Deych, M. Ye.
II. Zaryankin, A. Ye.
III. AEI TP/T-2816
IV. DSIR LLU M. 2000
V. Associated Electrical Industries, Ltd. (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Corrosion of Boiler Tubes Subjected to Temperature Changes, by D. Ya. Kagan, L. S. Zhuravlev.

RUSSIAN, per, Teploenergetika, No 2, 1960, pp 60-66.

DSIR LLU RTS 1602

Sci - Chem, Engr

Oct 60

130,719

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Tables of Thermo-Physical Properties of Ammonia, by M. P. Vukalovich, et al.

[illegible]AN, per, Teplоenergetika, No 1, 1960, pp 63-69.

NLL RTS 2037

Sci - Engr

Aug 62

207, 209

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

The Thermodynamic Principles of the Construction of Energy Diagrams for Steam-Gas Mixtures, by G. P. Mikhailovskiy.

[illegible], per, Teploenergetika, No 1, 1960, pp 6[illegible]-75.

MLL RTS 2038

Rel - Engr

Aug 62

201,204

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

An Investigation of Burnout During the Flow of Subcooled Water Through Small-Diameter Tubes at High Pressures, by P. I. Pavenkin, S. T. Semenov, 16 pp.

RUSSIAN, pox. Teploenergetika, Vol VII, No 1, 1960, pp 79-85. 920745

AEC Tr-5602

Del « Rep.

232,224

May 63

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Some Design Solutions for Important Sections of High Powered Turbine Installations With Super-Critical Steam Parameters, by L. A. Shubenko-Shubin.

RUSSIAN, per, Teploenergetika, Vol VII, No 2, 1960, pp 3-11.

NLL M. 3571

Sci - Engr

20,772

Jul 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Analysis of the Effect of Operating Conditions on the Amount of Incompletely Burnt Carbon (q_4) in Furnace Chambers, by S. L. Shargalova, K. M. Aref'ev.
RUSSIAN, per, Teploenergetika, Vol 7, No 2, 1960, pp 41-47.
(TRS 1333)
CSIRO 4149

314,393

Sci - Mechanical, Industrial, Civil, and Marine Engineering
Nov 66

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Analysis of the Effect of Operating Conditions on the Amount of Incompletely Burnt Carbon (q4) in Furnace Chambers, by S. L. Shagalova, K. M. Aref'ev.
RUSSIAN, per, Teploenergetika, Vol 7, No 2, 1960, pp 41-47.
NLL Ref: 9022.09B 1966 (4149)

Sci-Mechanical Industrial Civil 309,570
Marine Engineering

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

The Thermal Properties of a 96% (by volume) Solution of Ethyl Alcohol in Water, by M. P. Voukalovich, et al.

RUSSIAN, per, Teploenergetika, No 2, 1960, pp 70-77.

NLL RTS 2039

Sci - Chem

Jul 62

204,845

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

A Method for the Simultaneous Determination of the Relationship Between A, λ and C of Thermal Insulation Materials and the Temperature, by I. I. Pereletov. RUSSIAN, per, Teploenergetika, Vol 7, No 2, 1960, pp 77-80.
NTC 69-10934-20M

Sci-Phys
May 69

382,727

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Investigating Semiconductor Thermoelements,
by Yu. N. Malevskiy, A. S. Okhotin, 17 pp.

RUSSIAN, per, Teploenergetika, No 2, 1960,
pp 78-87. 9670297

FTD-MIL-916/1

164, 976

Sci - Electron

Aug 61

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Fundamental Problems of Preparing Feedwater for Power Stations in the Current Septennial, by F. G. Prokhorov, 16 pp.

RUSSIAN, per, Teploenergetika, No 3, 1960, pp 3-8.

Dept of Interior
TC7 R57 No 41

221,409

Sci - Engr
Feb 63

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Investigation of Conditions of Formation of Iron Oxide Deposits, by N. N. Mankina, 7 pp.

RUSSIAN, per, Teploenergetika, No 3, 1960, pp 8-12.
Chem Trans Sv 2701

Dept of Interior
TC7 E57 No [redacted] 46

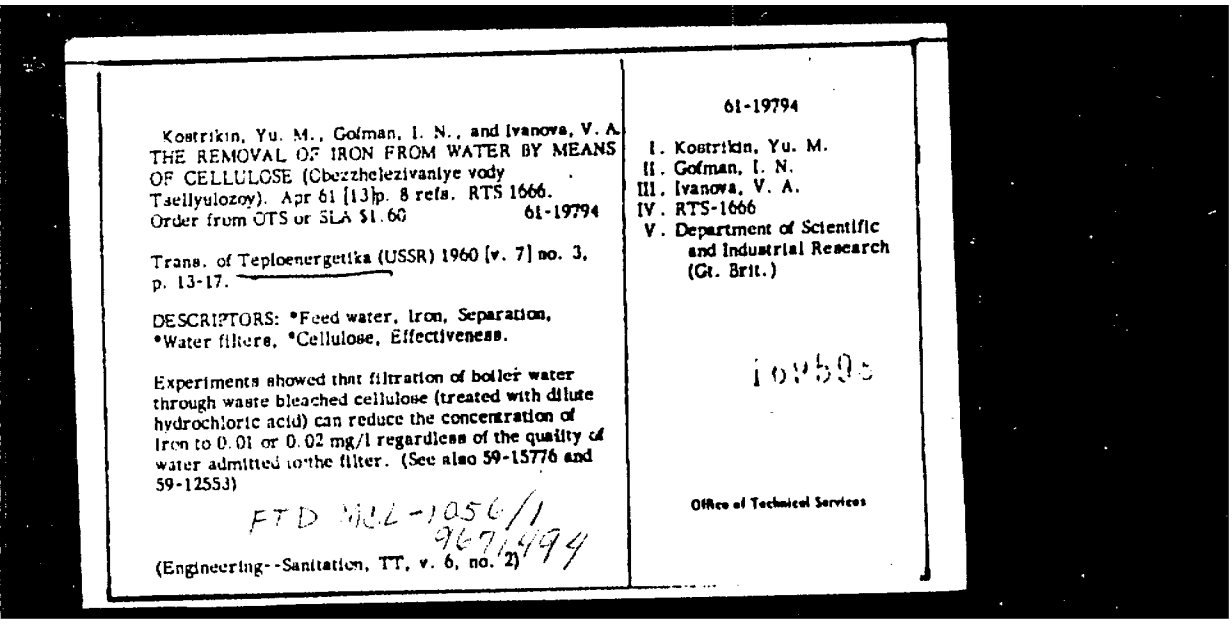
Sci - Min/Met

Feb 63

221,406

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8



Kostrikin, Yu. M., Gofman, I. N., and Ivanova, V. A.
THE REMOVAL OF IRON FROM WATER BY MEANS OF CELLULOSE (Obezzhelezivaniye vody Tsellyulozoy). Apr 61 [13]p. 8 refs. RTS 1666.
Order from OTS or SLA $1.60 61-19794

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 3, p. 13-17.

DESCRIPTORS: *Feed water, Iron, Separation, *Water filters, *Cellulose, Effectiveness.

Experiments showed that filtration of boiler water through waste bleached cellulose (treated with dilute hydrochloric acid) can reduce the concentration of iron to 0.01 or 0.02 mg/l regardless of the quality of water admitted to the filter. (See also 59-15776 and 59-12553)

FTD MCL-1056/1
967/494

(Engineering--Sanitation, TT, v. 6, no. 2)

61-19794

I. Kostrikin, Yu. M.
II. Gofman, I. N.
III. Ivanova, V. A.
IV. RTS-1666
V. Department of Scientific and Industrial Research (Gt. Brit.)

10950

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Rukovanov, B. P.
SALT CONCENTRATORS USED WHEN MEASURING THE SALT CONTENT OF STEAM (Primeneniye Solekontsentratorov pri Izmerenii Solesoderzhaniya Para). Jan 61 [11]p. 3 refs. RTS 1667.
Order from I.C or SLA mf$2.40, ph$3.30 61-15639

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 3, p. 20-24.

The Mostofin salt gauges can be converted into devices for measuring steam salt contents by fitting them with salt concentrators. Experience with VTI type VoF salt concentrators shows that they may be recommended as additional fittings both to electrical salt gauges now in use and to those under development. The VTI type VoF salt concentrators, which work at atmospheric pressure, are of simple design; relative enrichment is satisfactorily steady, and can be determined at any moment of time; they can be manufactured at power station workshops. (Author)
(Engineering--Chemical, TT, v. 5, no. 8)

61-15639

1. Salinometers--Applications
2. Steam--Chemical analysis
I. Rukovanov, B. P.
II. RTS-1667
III. Department of Scientific and Industrial Research (Gt. Brit.)

151659

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

The Thermodynamic Similarity of Ordinary and Heavy Water, by P. M. Zesel'man.

RUSSIAN, per. Teploenergetika, No 3, 1960, pp 83-87.

NLL RRS 2040
CEA R-1341 (Rev Tr)

Sol - Engr

Aug 62

201, 225

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Semiconductor Thermoelements, by Yu. N. Malevskiy, A. S. Okhotin,

RUSSIAN, bK, (Akademiya Nauk SSSR, Teploenergetika, Sbornik, Ispolzovaniye Solnechnoy Energii, 1960, pp 78-88.

*ATIC MCL-916/1

Sci - Phys

Apr 61

C-711

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Voukalovich, M. P., Dzampov, B. V. and others. PROPRIETES THERMIQUES DE L'EAU SOUS DES PRESSIONS ATTEITNANT 1200 kg/cm^2 ET A DES TEMPERATURES ATTEIGNANT 300°C ['Thermal Properties of Water at Pressures of up to 1200 kg/cm^2 and Temperatures of up to 300°C] tr. by R.de Trezvinsky. 15 Oct 61 [18]p. 16 refs. CEA Trans. no. R1411 (text in French).
Order from OTS or SLA $1.60 61-13825

Trans. in French of Teploenergetika (USSR) 1960, v. 7, no/ 4, p. 4-12.
A trans. in English is available from OTS or SLA $1.60 as 61-14567 [1961] 13p.

DESCRIPTORS: *Water, Thermodynamics, Tables, Pressure, Temperature.

(Physics--Thermodynamics, TT, v. 7, no. 5)

62-13825

I. Voukalovich, M. P.
II. Dzampov, B. V.
III. CEA-tr-R1411
IV. Commissariat à l'Energie Atomique (France)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Zalogin, N. G.

ON PROTECTING THE ATMOSPHERIC AIR AGAINST POLLUTION BY THE FLUE GASES OF LARGE POWER STATIONS. Jan 61 [7]p. 4 refs. RTS 1663. Order from LC or SLA mi$1.80, ph$1.80 61-15714

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 4, p. 18-24.

A comparative evaluation is made of the ash and sulphur content of the power station fuels of the U. S. S. R. The existing industrial sanitation norms for the cleanness of the atmospheric air are examined. An appraisal is made of the economic practicality of cleaning flue gases of sulphur dioxide by means of sulphur extraction plant, and of the dispersal of flue gases in the atmosphere with the aid of tall chimneys. (Author)

(Engineering--Sanitation, TT, v. 5, no. 8)

61-15714

1. Waste gases--Disposal
2. Air--Contamination
3. Power plants--USSR
I. Zalogin, N. G.
II. RTS-1663
III. Department of Scientific and Industrial Research (Gt. Brit.)

151666

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Stresses in the Flange Coupling of a Steam Line for High Steam Parameters During Heating, by D. P. Elizarov.

RUSSIAN, per, Teploenergetika, No 4, 1960, pp 33-38.

NLL M. 3328

Sci - Engr

191, 918

Apr 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Investigation of the Corrosion Stability of 12 XM ~~XXX~~ (Low-Alloy) Steel in Distilled Water at 330° and 130 kg/cm², by V. V. Gerasimov.

RUSSIAN, per, Teploenergetika, No 4, 1960, pp 42-47

Dept of Interior
TC7 E57 No 47
OTS 63-15155

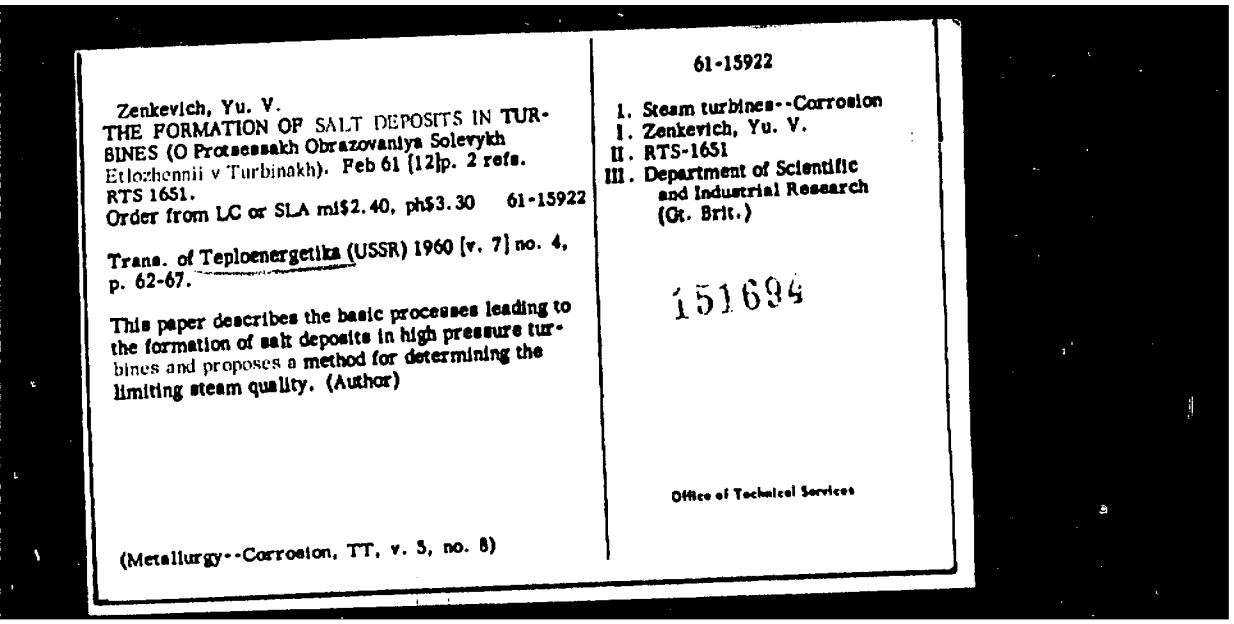
Sci - Mat & Met

Apr 63

229,232

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8



Zenkevich, Yu. V.
THE FORMATION OF SALT DEPOSITS IN TURBINES (O Protsessakh Obrazovaniya Solevykh Etlozhenii v Turbinakh). Feb 61 [12]p. 2 refs.
RTS 1651.
Order from LC or SLA mi$2.40, ph$3.30 61-15922

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 4, p. 62-67.

This paper describes the basic processes leading to the formation of salt deposits in high pressure turbines and proposes a method for determining the limiting steam quality. (Author)

(Metallurgy--Corrosion, TT, v. 5, no. 8)

61-15922

1. Steam turbines--Corrosion
I. Zenkevich, Yu. V.
II. RTS-1651
III. Department of Scientific and Industrial Research (Gt. Brit.)

151694

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

The Equation of State for Liquid Heavy Water, by P. M. Kessel'man.

RUSSIAN, per, Teploenergetika, No 4, 1960, pp 72-73.

HLL RTS 2041

Sci - Chem

Aug 62

207,557

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

S-386/60 (NY-4051)

The Optimal Temperature of Regenerative Preheating of Water at Nuclear Power Plants, by D. D. Kalafati, 21 pp.

RUSSIAN, per, Teploenergetika, No 4, 1960, pp 74-81.

JPRS 2845

Sci - Engr

Jul 60

120,062

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Kats, Sh. N.
THE EFFECT OF ADDITIONAL AXIAL FORCES UPON THE LONG-TIME STRENGTH OF BOILER TUBES (Vliyaniye Dobavochnykh Osevykh Usilii na Dlitel'nuyu Prochnost' Kotel'nykh Trub). Jan 61 [10]p. 6 refs. RTS 1665.
Order from LC or SLA mi$1.80, ph$1.80 61-15399

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 5, p. 12-16.

An analysis is presented of results of previous tests, reported by B. V. Zver'kov (Teploenergetika 5: no. 3, 51-54, 1958; available in translation from LC or SLA as 60-23077), which were made to substantiate the Soviet code for strength calculations of steam boiler components.

(Engineering--Mechanical, TT, v. 5, no. 8)

61-15399

1. Boiler tubes--Stresses
2. Boiler tubes--Test results
I. Kats, Sh. N.
II. RTS-1665
III. Department of Scientific and Industrial Research (Gt. Brit.)

151647

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Aizenshtat, I. I.
AUTOMATIC CONTROL SYSTEM FOR A ONCE-THROUGH BOILER WITH SCRUBBING AND SEPARATING EQUIPMENT. [1961] [12]p. 5 refs. C. E. Trans. 1831; [DSIR LLU] M.3251.
Order from OTS or SLA $1.60 61-27619

Trans. of Teploenergetika (USSR) 1960, v. 7, no. 5, p. 19-24.

DESCRIPTORS: *Boilers, *Control systems, Tests, Automatic.

Positive results of the continuous testing of an automatic control system of the 67-2SP boiler for over a year enable us to conclude that this system is reliable and afford sufficiently good control of once-through boilers with scrubbing and separating equipment both in the case of internal and external agitation and also of units comprising 2 boilers and a turbine. (Author)
(Engineering--Mechanical, TT, v. 6, no. 9)

61-27619

I. Aizenshtat, I. I.
II. CE Trans-1831
III. DSIR LLU M.3251
IV. Central Electricity Generating Board (Gt. Brit.)

185610

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Theory of the Long-Blade Turbine Stage; the Radial Change of Parameters Before the Nozzle and Purely Axial Exit Flow ($V_{2u} = 0$) by A. M. Topunov.

RUSSIAN, per, Teploenergetika, Vol VII, No 5, 1960, pp 27-32.

NLL M.4262
SLA 62-13129
193,929

Sco - Phys

Apr 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Generalized Dependencies for Heat Emission During Blistered Boiling of Liquids, by D. A. Labuntzov, 16 pp.

RUSSIAN, por, Teplofizika Vol VII, No 5, 1960, pp 76-81. 9689972

DDC RSIC-101

Sci - Engr
Jan 64

248,549

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Styrikovich, M. A., Miropol'skiy, Z. L. and others.
THE EFFECT OF PRECEDING STEAM-CARRYING ELEMENTS OF LOCAL BOILING IN STEAMING TUBES (Vliyaniye Predvkliyuchennykh Elementov na Vozniknoveniye Krizisa Kipeniya v Parageneriru-shchikh Trubakh). Feb 61 [18]p. 8 refs. RTS 1685. Order from LC or SLA mi$2.40, ph$3.30 61-15867

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 5, p. 81-88.

90 80 654

A comparison is made of the experimental data obtained by various investigators on the critical density of heat fluxes during the boiling of water in tubes. Results of tests are given which establish the effect of the elastic properties of the medium contained in the preceding volumes and of the size of these volumes, upon the occurrence of local boiling in steaming tubes. (Author)

(Physics--Thermodynamics, TT, v. 5, no. 8)

61-15867

1. Pipes--Thermodynamic properties
2. Boiling--Analysis
I. Styrikovich, M. A.
II. Miropol'skiy, Z. L.
III. RTS-1685
IV. Department of Scientific and Industrial Research (Gt. Brit.)

151690

AEC tr-4740

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Stefani, Ye. P.
ON CERTAIN PROBLEMS REGARDING THE AUTOMATION OF THERMAL POWER STATIONS. Oct 60 [12]p. RTS 1686.
Order from LC or SLA mi$2.40, ph$3.30 61-13497

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 6, p. 3-7.

A brief review is given of the stage reached in the automation of thermal power stations. Points are raised with regard to the necessity for analyzing the dynamic properties of plant units during the planning stage and with regard to the employment of controlling computers in power generation. (Author)

(Engineering--Mechanical, TT, v. 5, no. 4)

61-13497

1. Power plants--Control systems
I. Stefani, Ye. P.
II. RTS-1686
III. Department of Scientific and Industrial Research (Gt. Brit.)

143,239

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

ANALYSIS OF THE OPERATION OF PULVERIZER FANS, BY V. P. OSOKIN.

RUSSIAN, PER, TEPLOENERGETIKA, VOL VII, NO 6, 1960, PP 47-49.

NLL M. 6289

SCI - ENGR

OCT 62

214,720

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Design Features of Large-Scale Water-Treatment Plants for Power Stations With High Condensate Loss, by A. A. Krupchitskiy.

RUSSIAN, per, Teploenergetika, Vol VII, No 6, 1960, pp 58-62.

HLL H. 3298

Sci - Engr

191,911

Apr 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Rational Cycles of Steam-Gas Plants,
by A. I. Andryushchenko, V. N. Lapshov.

RUSSIAN, per, Teploenergetika, Vol VII,
1960, pp 60-62.

CSIRO

Sci - Engr
Apr 62

191,438

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Some Problems of the Theory of Radiant Heat Transfer in One-Dimensional Syotems, by V. N. Andryanov.

RUSSIAN, per, Teplaenergetika, No 6, 1960, pp 63-66.

NLL RTS 1801

177,599

Sci - Phys

Dec 61

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Ornatskiy, A. P.

THE EFFECT OF TUBE LENGTH AND TUBE DIAMETER ON THE VALUE OF CRITICAL HEAT FLOW UNDER THE CONDITION OF FORCED CIRCULATION OF WATER, HEATED TO LESS THAN THE SATURATION TEMPERATURE (Vliyaniye Dliny i Diametra Truby na Velichinu Kriticheskogo Teplovogo Potoka pri Vynuzhdenom Dvizhenii Vody, Nedogretoy do Temperatury Nasyshcheniya). Oct 60 [10]p. 11 refs. RTS 1687.

Order from LC or SLA mi$1.80, ph$1.80 61-15007

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 6, p. 67-69.

The results are given of experiments on the effect of tube length (l) and diameter (d) on the critical heat flow (q_{cr}) under forced circulation of water heated to less than saturation temperature, and of the effect of large thermal loads. It was found that (1) an increase in l/d from 2 to between 8 and 10 causes a decrease in (Engineering--Mechanical, TT, v. 5, no. 9) (over)

61-15007

1. Heat transfer--Analysis
2. Feed-water--Heat transfer
3. Pipes--Heat transfer
I. Ornatskiy, A. P.
II. RTS-1687
III. Department of Scientific and Industrial Research (Gt. Brit.)

151942

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Heat Transfer Resistance of Pipe Bundles Arranged in Chequerboard Order and With Continuous ~~Spiral~~ Spiral Ribbing, by V. G. Pastovskiy, U. V. Petrovskiy, 5 pp.

RUSSIAN, per, Teploenerg, Vol VII, No 6, 1960, pp 69-72.

AEC-TRC-Inf-Ser-23 301

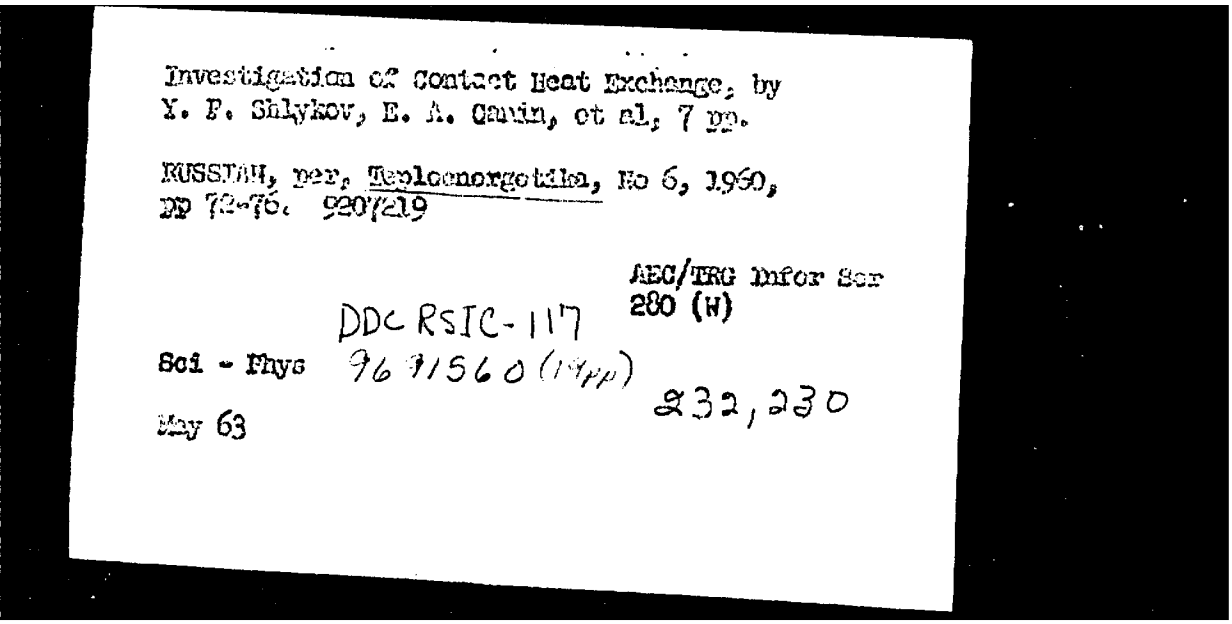
NCL(ADOM)Ref: 9091 Y 1963(TNGS 301)

Sci - Nucl Sci

343649

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8



Investigation of Contact Heat Exchange, by
Y. P. Shlykov, E. A. Ganin, et al, 7 pp.

RUSSIAN, per, Teploenergetika, No 6, 1960,
pp 72-76. 920/219

AEC/TRG Infor Ser
280 (H)

DDC RSIC-117

Sci - Phys 961560 (14pp)

May 63

232,230

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Voukalovich, M. P. and Kirillin, V. A.
DEVELOPMENT OF HEAT-POWER ENGINEERING OF THE U.S.S.R. AND THE PROBLEMS OF THERMODYNAMICS. [1961] 5p.
Order from OTS or SLA $1.10 61-14566

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 7, p. 3-4.

DESCRIPTORS: *Electric power production, *Thermodynamics, USSR.

(Engineering--Electrical, TT, v. 6, no. 2)

61-14566

I. Voukalovich, M. P.
II. Kirillin, V. A.

NLL M.4360

10361

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Voukalovich, M. P., Dzampov, B. V. and others.
THERMAL PROPERTIES OF WATER AT PRESSURES OF UP TO 1200 kg/cm^2 AND TEMPERATURES OF UP TO 300°C. [1961] [13]p. 16 refs.
Order from OTS or SLA $1.60 61-14567

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 7, p. 4-12.

DESCRIPTORS: *Water, Thermodynamics, Tables.

(Physics--Thermodynam cs, TT, v. 6, no. 2)

61-14567

I. Voukalovich, M. P.
II. Dzampov, B. V.

Dept of Int
AC5 E57 no14
NLL M.4358
DW71

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

CEA-tr-R-1411 Uncl.

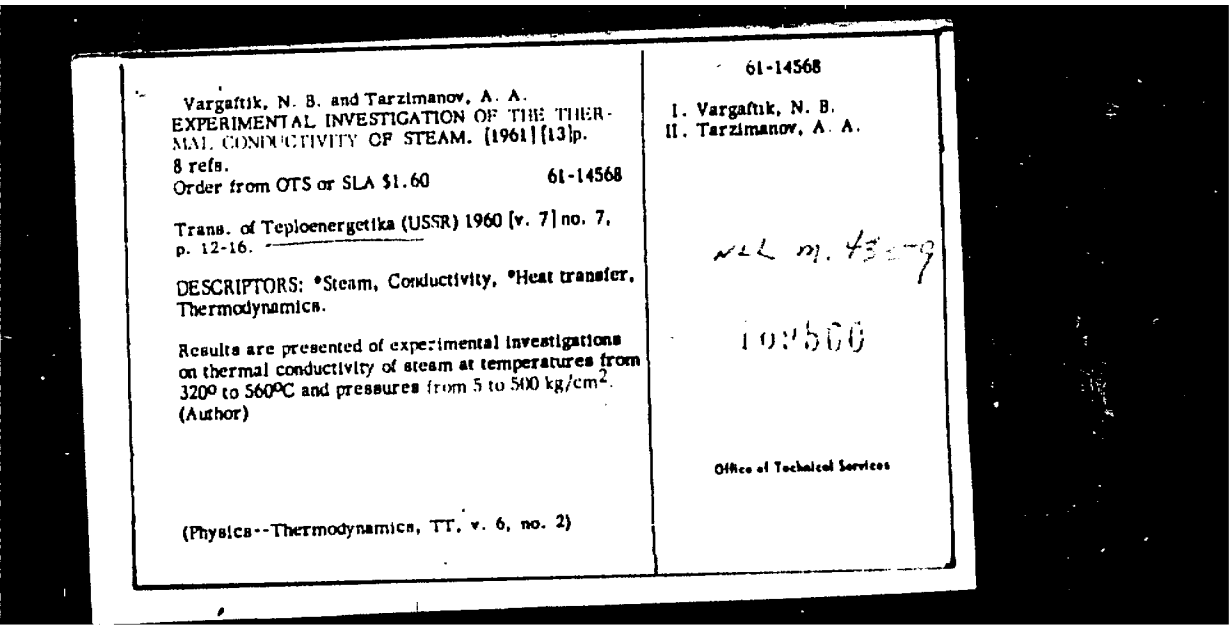
PROPRIETES THERMIQUES DE L'EAU SOUS DES PRESSIONS ATTEIGNANT 1200 kg/cm^2 ET A DES TEMPERATURES ATTEIGNANT 300°C. (Thermal Properties of Water under Pressures up to 1200 kg/cm^2 and Temperatures up to 300°C). M. P. Vukalovich, B. V. Dzampov, D. S. Rasskazov, and S. A. Remizov. Translated into French by B. de Trezvinsky from Teploenergetika, 7: No. 7, 4-12(1960). 18p.

Chemistry; Translations MC-4

C-4 NP NSA Dep.(mc); $1.60(fs), $0.80(mf)
N-7 JCL or TS

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8



Vargaftik, N. B. and Tarzimanov, A. A.
EXPERIMENTAL INVESTIGATION OF THE THERMAL CONDUCTIVITY OF STEAM. [1961] [13]p.
8 refs.
Order from OTS or SLA $1.60 61-14568

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 7, p. 12-16.

DESCRIPTORS: *Steam, Conductivity, *Heat transfer, Thermodynamics.

Results are presented of experimental investigations on thermal conductivity of steam at temperatures from 320° to 560°C and pressures from 5 to 500 kg/cm^2. (Author)

(Physics--Thermodynamics, TT, v. 6, no. 2)

61-14568

I. Vargaftik, N. B.
II. Tarzimanov, A. A.

NLL m. 43-7

109566

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

CEA-tr-R-1436 Uncl.

ETUDE EXPERIMENTALE DE LA CONDUCTIVITE THERMIQUE DE LA VAPEUR D'EAU. (Experimental Study of the Thermal Conductivity of Steam). N. B. Vargaftik and A. A. Tarzimanov. Translated into French from Teploenergetika 7: No. 7, 12-16(July 1960). 15p.

Engineering; Physics; Translations MC-34

C-34 NP NSA Dep.(mc); $1.60(fs), $0.80(mf) JCL or OTS

N-4

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

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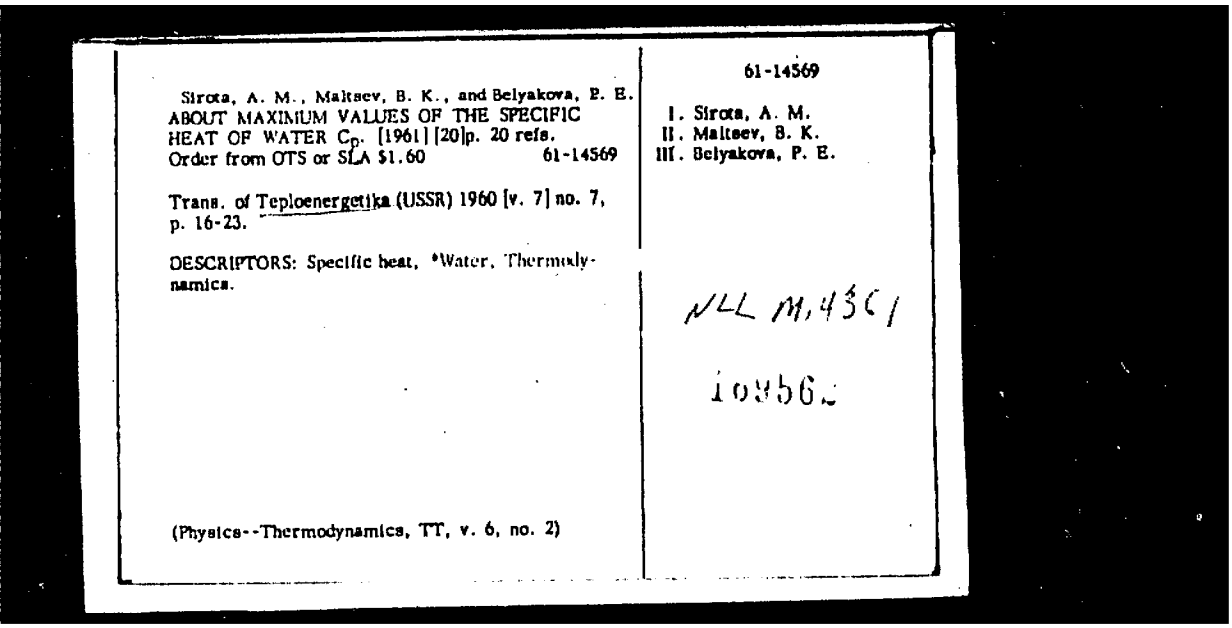

Sirota, A. M., Maltsev, B. K., and Belyakova, P. E.
ABOUT MAXIMUM VALUES OF THE SPECIFIC HEAT OF WATER C_p. [1961] [20]p. 20 refs.
Order from OTS or SLA $1.60 61-14569

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 7, p. 16-23.

DESCRIPTORS: Specific heat, *Water, Thermodynamics.

(Physics--Thermodynamics, TT, v. 6, no. 2)

61-14569

I. Sirota, A. M.
II. Maltsev, B. K.
III. Belyakova, P. E.

NLL M,43C1

10956

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

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Sheindlin, A. E., Shpilrein, E. E., and Sitschov, V. V.
SPECIFIC HEAT C_p OF WATER AND STEAM ON THE SATURATION LINE. [1961] [14]p. 21 refs
Order from OTS or SLA $1.60 61-16855

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 7, p. 23-27.

DESCRIPTORS: *Water, *Steam, Specific heat.

New values of the specific heat of dry, saturated steam C_{ps}^{s} in the temperature interval 0° to 340°C are presented. For temperatures from 0 to 100°C these results are obtained for the first time, while for temperatures higher than 170°C they are more accurate values of the results obtained earlier (Teploenergetika 5: no. 7, 13-17, 1958; available in translation from LC or SLA as 61-15396). At the same time, the values of the specific heat of water C_{ps}^{w} on the saturation line are (Physics--Thermodynamics, TT, v. 6, no. 8) (over)

61-16855

I. Sheindlin, A. E.
II. Shpilrein, E. E.
III. Sitschov, V. V.

125114
NLL M-4362

Office of Technical Services

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Air (Gas) Flow Vibrations in Tube Clusters of Boiler Assemblies, by V. V. Solov'yev, 6 pp.
RUSSIAN, per, Teploenergetika, No 7, July 1960, pp. 32-34.
JPRS 30498

USSR
Sci-Engr
Jun 65

231,580

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Quick-Response Heat Gage Surges, by
I. Ya. Zalkind, 8 pp.
RUSSIAN, per, Teploenergetika, Vol 7, No 7,
1960.
Dept of Commerce
Nat Bureau of Standards

Sci-Mech Engr
Sep 68

367,275

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

Testing Ball Mills for Different Lenght of Drum, by S. A. Kaganovich, K. Ya. Polferov.

RUSSIAN, per, Teploenergetika, Vol VII, No 7, 1960, pp 44-51.

NLL M.4422
SLA 62-13114
193,924

Sci - Engr

Apr 62

APPROVED FOR RELEASE: Thursday, August 28, 2003 CIA-RDP91-00929R000100270004-8

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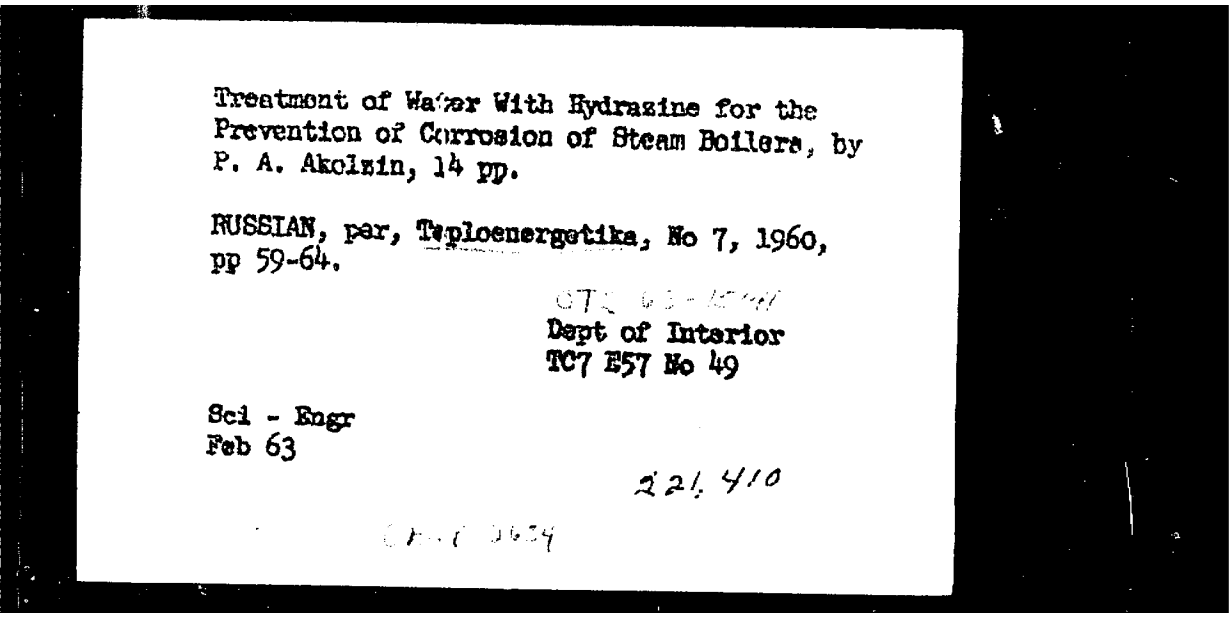

Treatment of Water With Hydrazine for the Prevention of Corrosion of Steam Boilers, by P. A. Akolzin, 14 pp.

RUSSIAN, par, Teploenergetika, No 7, 1960, pp 59-64.

Dept of Interior
TC7 E57 No 49

Sci - Engr
Feb 63

221.410

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